

Application No. 09/903,991
Reply to Office Action of: January 24, 2007

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (currently amended) A method for transparently resolving a web site address for a client public host in a public network when said client public host is connected to a virtual private network (VPN) using said public network, said method comprising the steps of:
 - a) connecting said client public host with said ~~[[a]]~~ virtual private network (VPN) through said public network, said client public host having a software module included therein for routing domain name requests to a domain name server (DNS) of said VPN while said connection is active, said software module operating transparently ~~[[to]]~~ at said client public host;
 - b) said software module monitoring communication packets transmitted from said client public host for the presence of domain name requests outbound from said client public host;
 - c) said software module transparently intercepting said requests;
 - d) said software module modifying said requests by replacing an address of a DNS of an internet service provider (ISP) of said client public host with the address of said DNS of said VPN and routing said requests to said DNS of said VPN;
 - e) said software module receiving an address location as a domain name response from said DNS of said VPN resolving said requests routed thereto by said software module and returning an address location to said software module as a domain name response;
 - f) said software module modifying said response by re-modifying said address of said ISP to counter-act the IP address modification performed in step d); and
 - g) said software module providing said address location to said client public host;wherein said address location appears to said client public host as being provided by said DNS of said ISP.
2. – 3. (canceled)
4. (currently amended) The method of ~~[[Claim]]~~ claim 1 further including the step of connecting said client ~~[[host]]~~ to said address location.

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5 – 11. (canceled)

12. (currently amended) The method of ~~[[Claim]]~~ claim 1, wherein step d) further comprises said software module modifying a check sum of said domain name requests; and step f) further comprises said software module re-modifying said check sum to counter-act the original check sum modification performed in step d).

13. (currently amended) The method of ~~[[Claim]]~~ claim 12, wherein said modification of said check sum includes computing a new check sum by XORing said check sum with a hexadecimal value to obtain a one's complement, and replacing said check sum with said new check sum.

14. (currently amended) The method of ~~[[Claim]]~~ claim 1, wherein said connection between said client ~~public host~~ and said VPN is a VPN tunnel.

15. (currently amended) The method of ~~[[Claim]]~~ claim 14, wherein said VPN tunnel is a Secure Internet Protocol (IPSec) tunnel.

16. (currently amended) The method of ~~[[Claim]]~~ claim 1, wherein said client ~~public host~~ is one of a personal digital assistant (PDA), a desktop personal computer, and a laptop personal computer; having data communication capabilities.

17. (currently amended) A client device configured for using a public network and ~~[[system]]~~ for transparently resolving a web site address ~~for a public host in a public network~~ when said client device ~~public host~~ is connected to a virtual private (VPN), said client device ~~system~~ comprising a communication link with a domain name server (DNS) of said VPN for connecting said client device with said VPN through said public network and storing a software module configured to operate transparently in said client device, said software module configured for, when executed, performing the steps of:

~~a domain name server (DNS) of said VPN for resolving domain name requests from said public host and for returning an address location as a domain name response;~~

~~a software module transparently included in said public host for~~
monitoring communication packets outbound of said client device ~~public host~~ for the

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presence of said domain name requests; [[for]]

transparently intercepting said requests; [[for]]

modifying said requests by replacing an address of a DNS of an internet service provider (ISP) of said client device public host with an address of said DNS of said VPN, said DNS of said VPN configured for resolving domain name requests from said client and for returning an address location as a domain name response; [[and]]

routing said requests to said DNS of said VPN; [[for]]

receiving ~~said response~~ and modifying said response from said DNS of said VPN by re-modifying said address of said ISP to counter-act the address modification performed on said request; and [[for]]

providing said address location to said client device public host; [[and]]

~~a communication link between said software module and said DNS of said VPN for transmitting said request and said response;~~

wherein said address location appears to said client device public host as being provided by said DNS of said ISP.

18. (currently amended) The system of [[Claim]] claim 17, wherein said software module is a driver.

19. (currently amended) The system of [[Claim]] claim 17, wherein said client device public host is one of a personal digital assistant (PDA), a desktop personal computer, and a laptop personal computer; having data communication capabilities compatible with said communication link.

20. (new) A computer readable medium comprising computer executable instructions for transparently resolving a web site address for a client in a public network when said client is connected to a virtual private network (VPN) using said public network, said computer executable instructions comprising instructions for connecting said client with said virtual private network (VPN) through said public network, for routing domain name requests to a domain name server (DNS) of said VPN while said connection is active, for operating transparently in said client; for monitoring communication packets transmitted from said client for the presence of domain name requests outbound from said client; for transparently intercepting said requests; for modifying said requests by replacing an address of a DNS of an internet service provider

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(ISP) of said client with the address of said DNS of said VPN and routing said requests to said DNS of said VPN; for receiving an address location as a domain name response from said DNS of said VPN resolving said requests routed thereto; for modifying said response by re-modifying said address of said ISP to counter-act said IP address modification; and for providing said address location to said client; wherein said address location appears to said client as being provided by said DNS of said ISP.

21. (new) The computer readable medium of claim 20 comprising instructions for connecting said client to said address location.

22. (new) The computer readable medium of claim 20 comprising instructions for modifying a check sum of said domain name requests; and for re-modifying said check sum to counter-act the original check sum modification.

23. (new) The computer readable medium of claim 22, wherein said modification of said check sum includes computing a new check sum by XORing said check sum with a hexadecimal value to obtain a one's complement, and replacing said check sum with said new check sum.

24. (new) The computer readable medium of claim 20, wherein said connection between said client and said VPN is a VPN tunnel.

25. (new) The computer readable medium of claim 24, wherein said VPN tunnel is a Secure Internet Protocol (IPSec) tunnel.

26. (new) The computer readable medium of claim 20, wherein said client is one of a personal digital assistant (PDA), a desktop personal computer, and a laptop personal computer; having data communication capabilities.